

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A process for producing a ~~homogeneous~~
~~type~~ solid catalyst component for a transition metal complex or a
~~homogeneous~~-~~type~~ solid catalyst containing a transition metal
complex comprising a step for removing a fine-powdery component
and/or a shapeless component utilizing a difference between their
sedimentation velocities in a solvent.

2. (Currently Amended) A process for producing a ~~homogeneous~~
~~type~~ solid catalyst component for a transition metal complex or a
~~homogeneous~~-~~type~~ solid catalyst containing a transition metal
complex comprising, in a washing step in the production of a
~~homogeneous~~-~~type~~ solid catalyst component for a transition metal
complex or a ~~homogeneous~~-~~type~~ solid catalyst containing
a transition metal complex, a step for removing a fine-powdery
component and/or a shapeless component by removing a slurry-form
portion before the completion of sedimentation of a fine-powdery
component and/or a shapeless component.

3. (Currently Amended) The process according to claim 1,
wherein the ~~homogeneous~~-~~type~~ solid catalyst component for a
transition metal complex or the ~~homogeneous~~-~~type~~ solid catalyst
containing a transition metal complex is a modified particle

obtained by contacting the following (a), the following (b), the following (c) and a particle (d):

(a): a compound represented by the following general formula

[1]:



(b): a compound represented by the following general formula

[2]:



(c): a compound represented by the following general formula

[3]:



wherein in the above formulae [1] to [3], M^1 represents a metal atom in the groups I, II, XII, XIV or XV in The Periodic Table, and m represents a valence of M^1 ; L^1 represents a hydrogen atom, a halogen atom or a hydrocarbon group, and in the case where plural L^1 's exist, they may be the same or different; R^1 represents an electron attractive group or a group containing an electron attractive group, and in the case where plural R^1 's exist, they may be the same or different; R^2 represents a hydrocarbon group or a halogenated hydrocarbon group; T represents, independent of each other, an atom in the groups XV or XVI in The Periodic Table, and t represents a valence of T .

4. (Currently Amended) The process according to claim 2, wherein the ~~homogeneous-type~~ solid catalyst component for a transition metal complex or the ~~homogeneous-type~~ solid catalyst containing a transition metal complex is a modified particle obtained by contacting the following (a), the following (b), the following (c) and a particle (d):

(a): a compound represented by the following general formula [1]:



(b): a compound represented by the following general formula [2]:



(c): a compound represented by the following general formula [3]:



wherein in the above formulae [1] to [3], M^1 represents a metal atom in the groups I, II, XII, XIV or XV in The Periodic Table, and m represents a valence of M^1 ; L^1 represents a hydrogen atom, a halogen atom or a hydrocarbon group, and in the case where plural L^1 's exist, they may be the same or different; R^1 represents an electron attractive group or a group containing an electron attractive group, and in the case where plural R^1 's exist, they may be the same or different; R^2 represents a hydrocarbon group or a

halogenated hydrocarbon group; T represents, independent of each other, an atom in the groups XV or XVI in The Periodic Table, and t represents a valence of T.

5. (Currently Amended) The process according to claim 1, wherein the ~~homogeneous-type~~ solid catalyst component for a transition metal complex or the ~~homogeneous-type~~ solid catalyst containing a transition metal complex is a modified particle obtained by contacting an aluminoxane (f) and a particle (d).

6. (Currently Amended) The process according to claim 2, wherein the ~~homogeneous-type~~ solid catalyst component for a transition metal complex or the ~~homogeneous-type~~ solid catalyst containing a transition metal complex is a modified particle obtained by contacting an aluminoxane (f) and a particle (d).

7. (Currently Amended) The process according to claim 1, wherein the ~~homogeneous-type~~ solid catalyst component for a transition metal complex or the ~~homogeneous-type~~ solid catalyst containing a transition metal complex is a modified particle obtainable obtained by contacting an aluminoxane (f) a particle (d) and a transition metal component (g).

8. (Currently Amended) The process according to claim 2, wherein the ~~homogeneous-type~~ solid catalyst component for a transition metal complex or the ~~homogeneous-type~~ solid catalyst containing a transition metal complex is a modified particle obtained by contacting an aluminoxane (f) a particle (d) and a transition metal component (g).

9. (Currently Amended) A ~~homogeneous-type~~ solid catalyst component for a transition metal complex or a ~~homogeneous-type~~ solid catalyst containing a transition metal complex obtained by the process according to claim 1.

10. (Currently Amended) A ~~homogeneous-type~~ solid catalyst component for a transition metal complex or a ~~homogeneous-type~~ solid catalyst containing a transition metal complex obtained by the process according to claim 2.

11. (Currently Amended) A process for producing an addition polymer which comprises polymerizing an addition polymerizable monomer using the ~~homogeneous-type~~ solid catalyst component for a transition metal complex or the ~~homogeneous-type~~ solid catalyst containing a transition metal complex according to claim 9.

12. (Currently Amended) A process for producing an addition polymer which comprises polymerizing an addition polymerizable monomer using the ~~homogeneous-type~~ solid catalyst component for a transition metal complex or the ~~homogeneous-type~~ solid catalyst containing a transition metal complex according to claim 10.